



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicant: Daniel Yellin

A UNIFIED MMSE EQUALIZATION AND MULTI-USER DETECTION APPROACH FOR  
USE IN A CDMA SYSTEM

Docket No.: 1000-0018  
Filed: October 30, 2003  
Examiner: Unknown



Serial No.: 10/697,853  
Due Date: N/A  
Group Art Unit: 2631

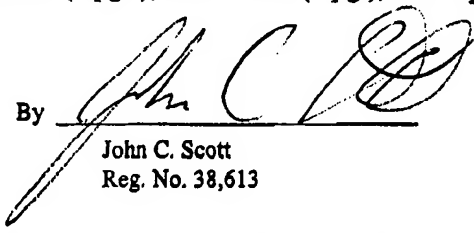
MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

- ☒ A return postcard and this transmittal document.
- ☒ A Supplemental Information Disclosure Statement (2 pgs.), Form 1449 (1 pg.), and copies of 7 cited documents.

Customer Number: 45643

By

  
John C. Scott  
Reg. No. 38,613

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 19 day of April, 2005.

MEREDITH MESCHER  
Name

Meredith Mescher  
Signature

(GENERAL)



S/N 10/697,853

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant:	Daniel Yellin	Examiner:	Unknown
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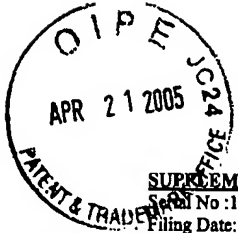
**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the referenced materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicant respectfully requests that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicant requests that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicant with the next official communication.

Pursuant to 37 C.F.R. §1.97(c)(1) and 37 C.F.R. §1.97(e)(1), Applicant state that each item of information contained in the Supplemental Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Supplemental Information Disclosure Statement.

It is believed that no fee or statement is required with the Supplemental Information Disclosure Statement. However, if a final action under §1.113, a notice of allowance under §1.311, or an action that otherwise closes prosecution in the application has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 50-2359 in order to have this Supplemental Information Disclosure Statement considered.



SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Serial No.: 10/697,853

Filing Date: October 30, 2003

Title: A UNIFIED MMSE EQUALIZATION AND MULTI-USER DETECTION APPROACH FOR USE IN A CDMA SYSTEM

Page 2  
Dkt: P16075



The Examiner is invited to contact the Applicant's Representative at the below-listed telephone number if there are any questions regarding this communication.

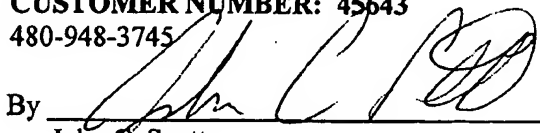
Respectfully submitted,

DANIEL YELLIN.

By his Representatives,

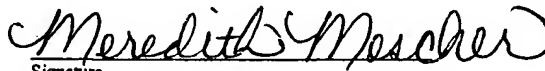
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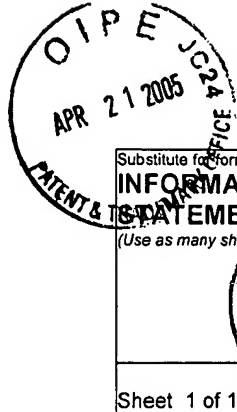
Date 4/19/05

By   
John C. Scott  
Reg. No. 38,613

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MEREDITH MESCHER  
Name

  
Signature



Substitute for Form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)	<b>Complete if Known</b>	
	<b>Application Number</b>	10/697,853
	<b>Filing Date</b>	October 30, 2003
	<b>First Named Inventor</b>	Yellin, Daniel
	<b>Group Art Unit</b>	2631
	<b>Examiner Name</b>	Unknown
Sheet 1 of 1	<b>Attorney Docket No: 1000-0018</b>	

### US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
	WO-0122609A1	03/29/2001	Bottomley, G. E.		

### OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		"International Search Report", PCT/US2004/035893, (04/06/2005), 14 pages	
		HAIFENG, WANG, et al., "Joint Multiuser Detector with Decoding and Feedback in Asynchronous CDMA Systems", <u>IEEE ISSSTA, IEEE International Symposium on Spread Spectrum Techniques and Applications</u> , 1, (1998), 160-164	
		LIU, XIANG, et al., "Group-Blind Multiuser Detector for Uplink in CDMA Systems", <u>Journal of Zhejiang University</u> , 36 (6), (Nov. 1, 2002), 646-649	
		MISRA, R. M., et al., "A Computationally Efficient Hybrid of Joint Detection and Successive Interference Cancellation", <u>VTC 2001 Spring. IEEE Vehicular Technology Conference</u> , 3 of 4, Conf. 53, (May. 6, 2001), 1784-1788	
		WANG, XIAODONG, et al., "Blind Equalization and Multiuser Detection in Dispersive CDMA Channels", <u>IEEE Transactions on Communications, IEEE Inc.</u> , 46 (1), (Jan. 1998), 91-103	
		YU, JAE-CHON, et al., "Subspace Tracking For Group-Blind Multiuser Detectors", <u>Vehicular Technology Conference, 1999 IEEE</u> , 2, (May. 16, 1999), 1042-1046	

EXAMINER

DATE CONSIDERED